32-core Dense SDM Unidirectional Transmission of PDM-16QAM Signals Over 1600 km Using Crosstalk-managed Single-mode Heterogeneous Multicore Transmission Line - DTU Orbit (09/11/2017)

32-core Dense SDM Unidirectional Transmission of PDM-16QAM Signals Over 1600 km Using Crosstalk-managed Single-mode Heterogeneous Multicore Transmission Line

We demonstrate 32-core dense space-division multiplexed (DSDM) unidirectional transmission of PDM-16QAM 20-WDM signals over 1644.8 km employing a low-crosstalk single-mode heterogeneous 32-core fiber in a partial recirculating-loop system.

General information

State: Published
Organisations: Department of Photonics Engineering, High-Speed Optical Communication, Centre of Excellence for Silicon Photonics for Optical Communications, Fujikura Ltd., University of Southampton, Coriant R&D GmbH, NTT Corporation, NTT Photonics Laboratories, Hokkaido University, Osaka Prefecture University
Authors: Mizuno, T. (Ekstern), Shibahara, K. (Ekstern), Ono, H. (Ekstern), Abe, Y. (Ekstern), Miyamoto, Y. (Ekstern), Ye, F. (Intern), Morioka, T. (Intern), Sasaki, Y. (Ekstern), Amma, Y. (Ekstern), Takenaga, K. (Ekstern), Matsuo, S. (Ekstern), Aikawa, K. (Ekstern), Saitoh, K. (Ekstern), Jung, Y. (Ekstern), Richardson, D. (Ekstern), Pulverer, K. (Ekstern), Bohn, M. (Ekstern), Yamada, M. (Ekstern)
Number of pages: 3
Publication date: 2016

Host publication information

Title of host publication: Optical Fiber Communication Conference 2016
Publisher: Optical Society of America (OSA)
Article number: Paper Th5C.3
ISBN (Print): 978-1-943580-08-8
Main Research Area: Technical/natural sciences
Conference: 2016 Optical Fiber Communication Conference and Exhibition, Anaheim, California, United States, 20/03/2016 - 20/03/2016
DOIs:
10.1364/OFC.2016.Th5C.3

Bibliographical note

From the session: Postdeadline Papers Session III (Th5C)
Source: PublicationPreSubmission
Source-ID: 123622543
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016